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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,662	03/15/2004	Jong Hwan Kim	8733.041.10-US	8586
30827 7590 01/20/2010 MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006				
EXAMINER WILLIAMS, JOSEPH L				
ART UNIT		PAPER NUMBER		
2889				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/799,662

Applicant(s)

KIM ET AL.

Examiner

Joseph L. Williams

Art Unit

2889

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 September 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 56-63, 65-76, 78-88, 90-119, 128-132, 141-145 and 150-154 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 56-63, 65-76, 78-88, 90-119, 128-132, 141-145 and 150-154 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-646)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 7/09
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

The response filed on 9/8/2009 has been entered.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 56-63, 65, 66, 69-76, 78, 79, 82-88, 90, 91, 94-98, 102-105, 109-115, 128-131, 141-144, and 150-153 are rejected under 35 U.S.C. 102(e) as being anticipated by Uchiyama et al. (US 6,128,183), of record by Applicant.

Regarding claim 56, Uchiyama ('183) teaches a method of forming a flat panel display device, the flat panel display device having a first frame, a second frame, a flat display panel and a backlight unit having a light source, the method comprising: coupling the first frame with the second frame, the flat display panel and the backlight unit being disposed between the first frame and the second frame, the backlight unit being adjacent the first frame and the flat display panel being adjacent to the backlight unit, wherein the first frame is capable of being fixed to a case with a fastening part at a rear surface of the first frame.

Regarding claim 57, Uchiyama ('183) teaches the fastening part includes a screw hole.

Regarding claim 58, Uchiyama ('183) teaches multiple fastening parts.

Regarding claim 59, Uchiyama ('183) teaches the case has a front part and a rear part.

Regarding claim 60, Uchiyama ('183) teaches the front part of the case has an opening corresponding to a viewing area of the fiat display panel.

Regarding claim 61, Uchiyama ('183) teaches a hinge extension coupled to the first frame.

Regarding claim 62, Uchiyama ('183) teaches the hinge extension is between the case and the first frame.

Regarding claim 63, Uchiyama ('183) teaches the fastening part includes a fastening hole.

Regarding claim 65, Uchiyama ('183) teaches the fastening part includes at least two fastening holes at two corners of the first frame.

Regarding claim 66, Uchiyama ('183) teaches the fastening part includes four fastening holes at four corners of the first frame.

Regarding claim 69, Uchiyama ('183) teaches the fastening part is not visible from a viewing direction of the fiat display panel.

Regarding claim 70, Uchiyama ('183) teaches a method of forming a fiat panel display apparatus, the fiat panel display apparatus having a case, a first frame, a backlight unit having a light source, a fiat display panel and a second frame, the method

comprising: coupling the first frame with the second frame, the fiat display panel and the backlight unit being disposed between the first frame and the second frame, the backlight unit being adjacent the first frame and the fiat display panel being adjacent the backlight unit, wherein the first frame includes a fastening part at a rear surface thereof; and fixing the first frame to the case, where the first frame fixes to the case with the fastening part at the rear surface of the first frame.

Regarding claim 71, Uchiyama ('183) teaches the fastening part includes a screw hole.

Regarding claim 72, Uchiyama ('183) teaches the case has a front part and a rear part.

Regarding claim 73, Uchiyama ('183) teaches the front part of the case has an opening corresponding to a viewing area of the fiat display panel.

Regarding claim 74, Uchiyama ('183) teaches a hinge extension coupled to the first frame.

Regarding claim 75, Uchiyama ('183) teaches the hinge extension is between the case and the first frame.

Regarding claim 76, Uchiyama ('183) teaches the fastening part includes a fastening hole.

Regarding claim 78, Uchiyama ('183) teaches the fastening part includes at least two fastening holes at two comers of the first frame.

Regarding claim 79, Uchiyama ('183) teaches the fastening part includes four fastening holes at four comers of the first frame.

Regarding claim 82, Uchiyama ('183) teaches the fastening part is not visible from a viewing direction of the flat display panel.

Regarding claim 83, Uchiyama ('183) teaches a method for forming a flat panel display apparatus for a computer, the flat panel display apparatus having a case, a flat display panel, a first frame, a backlight unit and a second frame, the method comprising: coupling the first frame with the second frame, the flat display panel being between the first frame and the second frame and the backlight unit being between the first frame and the flat display panel; and coupling the first frame with the case, the first frame having a fastening part at a rear surface opposite to a display surface area of the flat display panel, the fastening part being located within the display surface area, wherein the first frame couples with the case with the insertion of a screw into the first frame fastening part through a rear side of the case.

Regarding claim 84, Uchiyama ('183) teaches the case has a front part and a rear part.

Regarding claim 85, Uchiyama ('183) teaches the front part of the case has an opening corresponding to a viewing area of the fiat display panel.

Regarding claim 86, Uchiyama ('183) teaches a hinge extension coupled to the first frame.

Regarding claim 87, Uchiyama ('183) teaches the hinge extension is between the case and the first frame.

Regarding claim 88, Uchiyama ('183) teaches the fastening part includes a fastening hole.

Regarding claim 90, Uchiyama ('183) teaches the fastening part includes at least two fastening holes at two corners of the first frame.

Regarding claim 91, Uchiyama ('183) teaches the fastening part includes four fastening holes at four corners of the first frame.

Regarding claim 94, Uchiyama ('183) teaches the fastening part is not visible from a viewing direction of the flat display panel.

Regarding claim 95, Uchiyama ('183) teaches a method of forming a flat panel display apparatus, the method comprising: providing a case having a front part and a rear part; providing a flat panel display device unit having a flat display panel, a backlight unit, a first frame and a second frame; providing a hinge extension adjacent to the case, wherein the hinge extension includes a first plurality of screw holes; and coupling the flat panel display device unit and the case with the hinge extension using a plurality of screws entering from an outer side of the rear part of the case into the first plurality of screw holes.

Regarding claim 96, Uchiyama ('183) teaches a second plurality of screw holes are formed at a rear surface of the first frame and the plurality of screws penetrates through the second plurality of the screw holes.

Regarding claim 97, Uchiyama ('183) teaches the hinge arm is located between the first frame and the case.

Regarding claim 98, Uchiyama ('183) teaches the front part of the case has an opening corresponding to a viewing area of the flat display panel.

Regarding claim 102, Uchiyama ('183) teaches method of forming an information terminal apparatus, the method comprising: providing a fiat panel display device, the fiat panel display device having a light unit including a light source, a first frame supporting the light unit, a second frame corresponding to the first frame, a fiat display panel between the first frame and the second frame and a support member, the support member having a first fastening element having a first screw hole; providing a case having a second fastening element including a second screw hole, the support member being arranged adjacent to the case; and coupling the support member with the case, the support member and the case being coupled with the first fastening element and the second fastening element using a screw through the screw holes of the first and second fastening elements.

Regarding claim 103, Uchiyama ('183) teaches a second plurality of screw holes are formed at a rear surface of the first frame and the plurality of screws penetrates through the second plurality of the screw holes.

Regarding claim 104, Uchiyama ('183) teaches the a hinge arm is located between the first frame and the case.

Regarding claim 105, Uchiyama ('183) teaches the front part of the case has an opening corresponding to a viewing area of the fiat display panel.

Regarding claim 109, Uchiyama ('183) teaches a method for forming an information terminal apparatus comprising: forming a fiat panel display device having a light unit including a reflection unit, a light source and a light guide unit, a first frame supporting the light unit, a second frame corresponding to the first frame, and a fiat

display panel, forming a flat panel display device further comprising: positioning the flat display panel between the first frame and the second frame; and forming a first fastening element on a rear surface of the flat panel display device; providing a housing having a second fastening element; and coupling the flat panel display device with the housing through the first fastening element and the second fastening element.

Regarding claim 110, Uchiyama ('183) teaches the flat display panel has a display region and the first fastening element is formed on the rear surface of the flat panel display device within the display region.

Regarding claim 111, Uchiyama ('183) teaches the first and second fastening elements use a screw.

Regarding claim 112, Uchiyama ('183) teaches the screw is combined with the first fastening element through the second fastening element from a rear surface of the housing.

Regarding claim 113, Uchiyama ('183) teaches a third frame having a third fastening element.

Regarding claim 114, Uchiyama ('183) teaches the flat panel display device, the housing and the third frame are combined through the first, second and third fastening elements.

Regarding claim 115, Uchiyama ('183) teaches the flat panel display device is a liquid crystal display device.

Regarding claim 128, Uchiyama ('183) teaches a method of assembling a flat panel display device, wherein the flat panel display device has a first frame, a second

frame and a flat display panel, said method comprising: fixing the first frame to a display case using a fastening part at a rear surface of the first frame, wherein the fiat display panel is positioned between the first frame and the second frame when the fiat panel display device is assembled; and positioning at least a portion of a hinge extension between the first frame and the display case.

Regarding claim 129, Uchiyama ('183) teaches coupling the hinge extension to the first frame.

Regarding claim 130, Uchiyama ('183) teaches the fastening part includes a screw and a screw hole in the rear surface of the first frame, and wherein the method of claim 128 further comprises: inserting the screw through a hole in the hinge extension and into the screw hole in the rear surface of the first frame.

Regarding claim 141, Uchiyama ('183) teaches a method of mounting a flat panel display device, wherein the flat panel display device includes a first frame, a second frame and a flat display panel, said method comprising: fixing the first frame of the fiat panel display device to a display case using a fastening part at a rear surface of the first frame, wherein the fiat display panel is positioned between the first frame and the second frame, and the first frame is positioned to the rear relative to the second frame and the flat display panel when the fiat panel display device is mounted; and positioning at least a portion of a hinge extension between the rear surface of the first frame and the display case.

Regarding claim 142, Uchiyama ('183) teaches coupling the hinge extension to the first frame.

Regarding claim 143, Uchiyama ('183) teaches the fastening part includes a screw and a screw hole in the rear surface of the first frame, and wherein the method further comprises: inserting the screw through a hole in the hinge extension and into the screw hole in the rear surface of the first frame.

Regarding claim 144, Uchiyama ('183) teaches a method of mounting a flat panel display device, wherein the fiat panel display device includes a first frame, a second frame and a flat display panel, said method comprising: fixing the first frame of the flat panel display device to a display case using a fastening part at a rear surface of the first frame, wherein the flat display panel is positioned between the first frame and the second frame, and the first frame is positioned to the rear relative to the second frame and the fiat display panel when the fiat panel display device is mounted; wherein the flat panel display device further comprises a backlight unit.

Regarding claim 150, Uchiyama ('183) teaches a method of mounting a flat panel display device for use with a computer, wherein the fiat panel display device includes a first frame, a second frame and a fiat display panel, said method comprising: inserting a screw through an opening in a rear surface of the display case; and inserting the screw into a fastening hole at a rear surface of the first frame, wherein the display case is to the rear of the first frame, the fiat display panel is positioned between the first frame and the second frame, and the first frame is positioned towards the rear of the fiat panel display device when the fiat panel display device is mounted; and positioning at least a portion of a hinge extension between the rear surface of the first frame and the display case.

Regarding claim 151, Uchiyama ('183) teaches coupling the hinge extension to the first frame.

Regarding claim 152, Uchiyama ('183) teaches the fastening part includes a screw and a screw hole in the rear surface of the first frame, and wherein the method of claim 141 further comprises: inserting the screw through a hole in the hinge extension and into the screw hole in the rear surface of the first frame.

Regarding claim 154, Uchiyama ('183) teaches method of mounting a flat panel display device for use with a computer, wherein the flat panel display device includes a first frame, a second frame and a flat display panel, said method comprising: inserting a screw through an opening in a rear surface of the display case; and inserting the screw into a fastening hole at a rear surface of the first frame, wherein the display case is to the rear of the first frame, the flat display panel is positioned between the first frame and the second frame, and the first frame is positioned towards the rear of the flat panel display device when the flat panel display device is mounted, wherein the flat panel display device further comprises: a backlight unit.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 67, 68, 80, 81, 92, 93, 99-101, 106-108, 116-119, 132, 145, and 154 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchiyama et al. (US 6,128,183), of record by Applicant.

Regarding claims 67, 68, 80, 81, 92, 93, 99-101, 106-108, 116-119, 132, 145, and 154, Uchiyama ('183) teaches all of the claimed limitations except for the backlight unit comprises: a reflector unit adjacent the first frame; the light source unit adjacent the reflector unit; and a light guide unit adjacent the light source unit and a diffuser unit and a prism unit.

However, it is well known in the art to use this structure in a display device for the purpose of improving the brightness of the display.

Hence, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the known structure of the backlight unit comprises: a reflector unit adjacent the first frame; the light source unit adjacent the reflector unit; and a light guide unit adjacent the light source unit and a diffuser unit and a prism unit in the display of Uchiyama or the purpose of improving the brightness of the display.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph L. Williams whose telephone number is (571) 272-2465. The examiner can normally be reached on M-F (6:30 AM-3:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minh-Toan Ton can be reached on (571) 272-2303. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Joseph L. Williams/
Primary Examiner, Art Unit 2889